Lab 5: PID Controller Design

*ECE 564: Fundamentals of Autonomous Robots Lab*

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*The group members have worked together and face-to-face at all stages of this project work. The contributions of members to the report and to the codes are equal.*

*(Initials of group members)*

# Introduction

# Lab Parts

## Primitive Wall Follow

### Quick Turn Wall Follow



### Gentle Turn Wall Follow



## Wall Following with P (Proportional) Controller Primitive Wall Follow



## Wall Following with PD (Proportional and Derivative) Controller

## Wall Following with PI (Proportional and Integral) Controller

## Wall Following with PID (Proportional, Integral, and Derivative) Controller

# Conclusion

# Suggestions